

Notice of Allowability

Application No.

09/716,885

Examiner

David L. Lewis

Applicant(s)

SATAKE, RUMO

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/25/2007.
2. ☒ The allowed claim(s) is/are 1-41.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



REASONS FOR ALLOWANCE

1. Claims 1-41 are allowed over the prior art of record.
2. Claims 42-44 have been canceled.
3. The following is an examiner's statement of reasons for allowance: The Applicants arguments filed on 6/25/2007 are persuasive. **The feature of independent claim 1** directed towards allowable subject matter is displaying a first black level by the liquid crystal material in a first period, applying a first voltage to the liquid crystal material for a first gradation display in a second period just after the first period, displaying a second black level by the liquid crystal material in a third period just after the second period: and applying a second voltage to the liquid crystal material for a second gradation display in a fourth period just after the second period. **The feature of independent claim 2** directed towards allowable subject matter is canceling out a spontaneous polarization of the liquid crystal material in a first period, and applying a first voltage to the liquid crystal material for a first gradation display in a second period just after the first period, canceling out the spontaneous polarization of the liquid crystal material in a third period just after the second period, applying a second voltage to the liquid crystal material for a second gradation display in a fourth period just after the third period. **The feature of independent claim 3** directed towards allowable subject matter is applying a voltage of OV to the liquid crystal material in a first period, and applying a first voltage to the liquid crystal material for a first gradation display in a second period just after the first period, applying a voltage of OV to the liquid crystal material in a third period just after the second period, applying, a voltage to the liquid crystal material for a second gradation display in a fourth period just after the third period. **The feature of independent claim 12** directed towards allowable subject matter is applying a

voltage of OV to the liquid crystal material in a first period through a single thin film transistor of the plurality of thin film transistors, and performing a first gradation display in a second period through the single thin film transistor just after the first period, applying a voltage of OV to the liquid crystal material in a third period through a single thin film transistor of said plurality of thin film transistors just after the second period, and performing a second gradation display in a fourth period through said single thin film transistor just after the third period. **Nito et al. generally teaches** of the type of liquid crystal display claimed however fails to specifically teach of said drive sequence highlighting the specific periods presented in the described order. **Therefore** the above said features in combination with the other limitations of the above independent claims 1-3 and 12, are found to be allowable over the prior art of record, and therefore claims 1-41 are allowable.

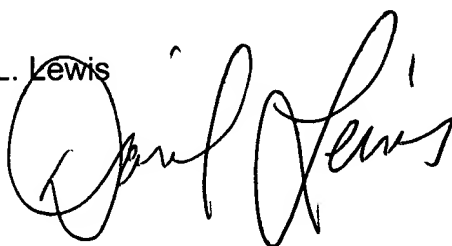
4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is **(571) 272-7673**. The examiner can normally be reached on MTWTHF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on **(571) 272-7681**. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571)-273-8300.
6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner: David L. Lewis

August 30, 2007

A handwritten signature in black ink, appearing to read "David L. Lewis", written over the printed name and date.